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(54) METHOD FOR BACKWASHING CERAMIC MEMBRANE

(57) Abstract:

PURPOSE: To provide a sufficient effective membrane differential pressure and to effectively backwash a ceramic membrane in a short time by closing the membrane on the raw water side, exerting a high pressure from the filtration side to equalize the pressures on the raw water side and filtration side of the membrane and then releasing the pressure on the raw water side at a time.

CONSTITUTION: When backwashing is needed, a raw water feed valve 3, a waste backwashing water valve 9, etc., are closed to close the raw water side. High-pressure air is added to a pressure tank 5 under these conditions by opening a high-pressure air feed valve 6, hence a pressure is exerted on the filtration side of a ceramic membrane 2, the pressure is transmitted to the closed raw water side, and the pressures on the raw water side and filtration side of the membrane 2 are equalized. While the valve 6 is opened and the valve 9 is rapidly opened, the pressure on the raw water side is lowered at once, and a large effective membrane differential pressure is generated. Accordingly, the deposits on the membrane surface are

successively peeled off the surface, passed through the valve 9 along with the filtered water flowing out of the tank 5 and discharged.

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